

Nayan H. Joshi

Publications and Patents

1. "Effect of Some Dyes on the Corrosion of Aluminium in Potassium Hydroxide", *Denki Kagaku*, 45, 716 (1977).
2. "Aldehydes as Corrosion Inhibitors for Aluminium-Magnesium Alloys in Potassium Hydroxide", *Workstoffe Und Korrosion*, 29, 461 (1978).
3. "Some Aromatic Hydroxy-compounds as Corrosion Inhibitors for Aluminium-Copper Alloy in Sodium Hydroxide", *Proceedings of 7th International Congress on metallic Corrosion, Rio de Janeiro, 1979, p. 1878 Abraco, Rio de Janeiro, Brazil*.
4. Corrosion of 3S Aluminium by Mixture of Alkalies and its Inhibition by Oxo-anions", *Workstoffe Und Korrosion*, 31, 290 (1980).
5. "Some Dyes as Corrosion Inhibitors for 3S Aluminium in Potassium Hydroxide", *Korrosios Figyelo*, 20, 3 (1980).
6. "Corrosion of Aluminium in Aliphatic Amine and its inhibition by Some Dyes", *Workstoffe Und Korrosion*, 31, 926, (1980).
7. "Furfuraldehyde and Salicylaldehyde as Corrosion Inhibitor for 3S Aluminium in Sodium Hydroxide", *J. Electrochem. Soc. of India*, 30, 253, (1981).
(1981-MASCOT Award winning paper in Corrosion Science)
8. "Self-accelerating & Replenishing Non-formaldehyde Immersion Copper", *U.S. Patent # 5,543,182*.
9. "EMI-RFI Shielding with Direct Plating Technology", *paper presented at Surfin' 96, Cleveland, Ohio*.
10. "Composition and Process for Treating a Surface Coated with a Self-accelerating and Replenishing Non-formaldehyde Immersion Coating", *U.S. Patent # 5,725,640*.
11. "Verfahren zum selektiven oder partiellen elektrolytischen Metallisieren von Substraten aus nichtleitenden Materialien", *German Patent # DE 195 10 855 C 2*.
12. "Metallization of Non-conductive Surfaces with Silver Catalyst and Electroless Metal compositions", *US patent #6,645,557 B2*.
13. "Aqueous Alkaline Zincate Solutions and Methods", *US Patent #6,790,265 B2*.
14. "Aqueous Alkaline Zincate Solutions and Methods", *US Patent #6,811,819 B2*.



15. "Nitric Acid and Chromic Acid free Compositions and Process for Cleaning Aluminum and Aluminum Alloys", *Applied for patent – Pub. No. US 2004/0242449 A1, Dec. 2, 2004.*
16. "Aqueous Acidic Immersion Plating Solutions and methods for Plating on Aluminum and Aluminum Alloys", *Applied for Patent – Pub. No. US 2005/0008788 A1, Jan. 13, 2005.*